SWANVILLE PUBLIC SCHOOL

Course Catalog

2026-2027

GRADUATION REQUIREMENTS

- **28 credits** are required for graduation. **One semester is equivalent to 0.5 credits.**
- Each student must complete credits by the end of the 3rd quarter of their senior year in order to participate in graduation ceremonies. Seniors entering 4th quarter may be only .5 credits short and still participate in graduation.
- 3 credits of math, 3 credits of science, 4 credits of english, 3.5 credits of social studies, .5 of economics, 1 credit of a combination of physics and/or chemistry, 1 credit of fine arts, and 1 credit of physical education (one semester/.5 credit can be substituted with one season of varsity sports) are required for graduation
- Students must register for 7 classes per semester
- Juniors and Seniors may earn credits toward graduation by being a Teacher's Assistant (TA)
    - Students must be passing all classes in order to continue their TA status.
    - Any student that is down more than 1 credits may not be a TA.
    - Junior and senior students may be a TA for a full year.
    - A student who serves as a TA will be graded on a pass/fail basis.

Grade	Required Class	Credit	Completed
Grade 9	English 9 (304A and 304B Language Arts 9)	1	
	Algebra I (405 A and 405 B Alg1)	1	
	American History (703A and 703B AmHist)	1	
	Earth and Space Science (635C and 635D)	1	
	Career Exploration (required for Class of 2029 and later)	.5	
	Elective Courses	2.5	
Grade 10	English 10 (306A and 206B Language Arts 10)	1	
	Geometry (407A and 407B Geometry)	1	
	World Cultures (704A and 704B World History) class of 2028 and after)OR Take World HIst for college credit as a junior or senior	1	
	Biology (603A and 603B Biology)	1	
	Elective Courses	3	
Grade 11	English Required (318A and 318B College Prep Comp and Lit **OR** Composition I/II🎓)	1	

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- Students must register for 7 classes per semester
- Juniors and Seniors may earn credits toward graduation by being a Teacher's Assistant (TA)
  - Students must be passing all classes in order to continue their TA status.
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	Social Required Social Problems and Economics **OR** 839 WorldHist Beg-1500🎓and 847 World History 1500-present🎓 **OR** Economics 🎓)	1	
	Math Required: Algebra 2 (408A Alg2 & 408 B Alg2) **OR** College Algebra (850A Intro College Alg🎓 & 854 College Algebra🎓)	1	
	Elective Courses (including TA credits)	4	
Grade 12	English Required (318A and 318B College Prep Comp and Lit **OR** Composition I/II🎓)	1	
	Social Problems (705A SocProb)	.5	
	Economics (Choose from: 824 Economics **OR** 825 AmerEcon🎓)	.5	
	Elective Courses (including TA credits)	5	
Any Grade (9-12)	Physical Education (students may substitute one season of participating in varsity sports for one semester of physical education)	1	
9-12	Required: Fine Art (band, art, media)	1	
11-12	Required: Physics and/or Chemistry (Earth Science for Juniors 2026-2027)	1	
9-12	Required for class of 2028 and later: Personal Finance	.5	
	Total Credits for graduation	**28**	

MIDDLE SCHOOL COURSE REQUIREMENTS

Grade	Required Class	Credit	Completed
Grade 7	Math 7 (400A and 400B Math 7)	1	
	English 7 (300A and 300B Language Arts 7)	1	
	Life Science 7 (600A and 600B LifeSci7)	1	
	American History 7 (700A and 700B AmHist7)	1	
	Phy Ed 7 (500A and 500B Phy Ed 7)	1	
	Elective rotation: Ready for Tomorrow, Ag/Tech, Health, and Art (1 quarter each)	1	
	Junior High Band **OR** Ramp Up	1	
Grade 8	English 8 (302A & 302 B Language Arts 8)	1	
	Beginning Algebra (402A and 402B BegAlg)	1	
	World Geography 8 (712A and 712B WorldGeo8)	1	
	Physical Science 8 (635A and 6635B Earth Sci8)	1	
	Phy Ed 8 (501A and 501B Phy Ed 8)	1	
	Elective rotation: Ready for Tomorrow, Ag/Tech,, Health, and Art (1 quarter each)	1	
	Junior High Band **OR** Ramp Up	1	

ELECTIVE COURSES OFFERED

Agriculture

Rooted in Ag *(Fall)* ***Grades 9-12***

COURSE ID:

Dig deep into the world of agriculture with Rooted in Ag, a hands-on introductory course that explores the foundations of the industry that sustains us all. You will gain basic knowledge and skills in the areas of Agribusiness, Animal Systems, Biotechnology, Food Science, Natural Resources, Plant Systems, Power/Structural Systems, and FFA. You'll develop essential skills and knowledge that lay the foundation for future studies and careers in agriculture. Get ready to learn by doing in this dynamic and interactive class!

Natural Resources & Wildlife Management *(Fall)* ***Grades 9-12***

COURSE ID:

If you have a passion for Minnesota's wildlife and natural resources, this course is for you! This course will focus on the history and success of wildlife management. Key topics include white tailed deer, black bear, moose, predators, and the gray wolf. Through hands-on activities and real-world applications– many taking place in our school forest, students will develop a deeper understanding of wildlife populations, habitat management, and the role humans play in conservation.

Vet Science*(Spring)* ***Grades 9-12***

COURSE ID:

Interested in working with animals? This course introduces students to careers in the veterinary and companion animal industries while building essential skills in animal care and handling. Students will learn about animal health and safety, basic medical terminology, first aid, record keeping, and client communication. Students will also explore animal systems, genetics, nutrition, diseases, and welfare, along with current issues and technology in the animal industry.

Landscaping *(Spring)* ***Grades 9-12***

COURSE ID:

Landscaping is a multi-billion dollar industry focused on both design and service. This course introduces students to the fundamentals of landscape design, installation, and maintenance through hands-on

projects. Students will identify landscaping needs, apply design principles, and create functional, visually appealing outdoor spaces. Topics include: Plant selection, Hardscape applications, Basic Irrigation, Cost estimation, and Environmentally responsible practices. Students will actively participate in real landscaping work while learning steps from planning to final installation!

Work Based Learning I and !! ***Grades 11,12***

Work-Based Learning provides juniors and seniors with the opportunity to gain real world job experience while earning school credit. Students will participate in approved employment aligned with their interest. Students are released from one class period to attend work. If a work schedule does not align with the school day, students are expected to remain in class. In addition to their job, students will engage in classroom check-ins and reflective activities focused on career readiness, goal setting, and employability skills. Emphasis is placed on building a strong work ethic, responsibility, and career awareness to support a successful transition from high school to the workforce or post-secondary education. The instructor will maintain communication with employers and conduct periodic workplace visits.

Students must maintain a minimum 2.0 GPA, demonstrate good attendance, follow all child labor laws, and successfully complete all coursework to remain eligible.

Art

For each art class, students will utilize and maintain a sketchbook throughout the semester to practice, build upon, and to take down notes and ideas for their creative artmaking process.

Foundations/ Art 1 ***(Fall)*** ***Grades 9-12***

COURSE ID: 231 A FOUNDATIONS IN ART

** Prerequisite for all other art classes*

Students will learn and apply the building blocks to creating art. They will be introduced to a variety of artists and art styles throughout history. They will also be exposed to a variety of art materials and mediums that include: drawing, painting, clay, and more.

Photography & Yearbook ***(Fall)*** ***Grades 9-12***

COURSE ID: 903A YEARBOOK DESIGN

Explore the world of photography and digital art. Learn the basics of how to use a camera, how to edit a photo, and understand the elements of photo compositions. Students will apply the skills and knowledge learned to create the High School and Elementary yearbooks for the 2025-2026 school year.

Painting ***(Fall)*** ***Grades 10-12***

COURSE ID: 1078 3D ART

Prerequisite: Foundations (Art 1)
The main focus is on developing technical skills in watercolor, acrylic, and mixed media while exploring color theory, composition, and personal expression. Students advance from foundational techniques—such as observational painting, often incorporating Art History, 2D design, and 3D application

Ceramics ***(Spring)*** ***Grades 10-12***

COURSE ID: 228 2D ART

Prerequisite: Foundations (Art 1)
Students will explore how pottery has evolved over time, learn different techniques to building with clay, and how to recycle it. They will also learn the basics of using the kiln. Students will use a variety of handbuilding techniques as well as how to use the pottery wheel to create.

Graphic Design & Yearbook ***(Spring)*** ***Grades 9-12***

COURSE ID: 903 B YEARBOOK DESIGN

Students will learn the principles of design and typography. Learning how to create art that visually communicates messages to the viewer. Using various technology and techniques to explore the world of design through logos, advertisement, publication, and more. Students will apply the skills and knowledge learned to create the High School and Elementary yearbooks for the 2025-2026 school year.

Architecture and Interior Design ***(Spring)*** ***Grades 10-12***

COURSE ID: 900B DIGITAL ART

Prerequisite: Foundations (Art 1)
This introduces students to the fundamentals of residential and commercial design, combining aesthetic principles with structural drafting. Students will explore architectural history, space planning, and interior design elements (color, light, texture) while gaining hands-on experience in using software and building models. Free software for students

- SketchUp for Schools
  - Google info
- Canva - Floor Plans

Industrial Tech

Career Investigation I/II *(Fall, Spring)* ***Grades 9-10***

COURSE ID: 2203 CAREER SEMINAR 1, 2204 CAREER SEMINAR 2

Students will research several career paths and have hands-on experience in each one. These include: Construction, Manufacturing, Automotive, Energy and Agriculture. Students will learn the safe working practices in each field. Students will be involved with tours of local businesses and colleges and have guest speakers give presentations on career outlook, education required and industry needs.

Basic Supermileage *(Fall)* ***Grades 10-12***

Prerequisite: Basic Metals/Metal Fabrication OR Career Exploration

COURSE ID: 870 BASIC SUPERMILEAGE

This class is designed for students who have completed the "Basic Metals/Metal Fabrication I" course. Students will continue to challenge themselves by learning more advanced welding skills and metalworking skills as well as enhancing their design skills as they plan and design personal metal projects. Students will also design and build a car for the MN Supermileage competition. This course includes a two-day competition at Brainerd International Raceway in May.

CNC Basic (*Fall)* ***Grades 9-12***

(Plasma Table & Woodmill)
COURSE ID:

Students will learn how to do CAD (Computer Aided Design), CAM (Computer Aided Manufacturing) and CNC (Computer Numerical Control) on the two machines we have in the shop. Students will design projects using the computer programs that are provided on each machine (FlashCut, VCarve Pro and WinCNC).

Engineering Design courses offer students experience in solving problems by applying a design development process. Often using solid modeling computer design software, students develop, analyze, and test product solutions models as well as communicate the features of those models. The course may use CAD-based projects to reinforce the design process, creative problem solving, aesthetics, time management and basic mathematical principles.

Basic Welding *(Fall)* ***Grades 9-12***
COURSE ID: 829A BASIC WELDING

This course is designed for any student who may have an interest in welding. Subjects covered will be stick, TIG, MIG wire feed, oxyacetylene welding and cutting, welding aluminum, repair projects, and the basic operation of a plasma cutter. Students will be able to select and construct a project of their own as they develop welding skills.

Advanced Supermileage *(Spring)* ***Grades 10-12***

Prerequisite: Basic Supermileage

COURSE ID: 871 ADVANCED SUPERMILEAGE

The objective of this class is to provide students with a challenging project that allows practical experience in design, fabrication, and testing. Students will work as a team to design and build a vehicle or modify an existing vehicle to achieve the greatest fuel economy possible. Skills will be developed in design, engineering, welding, metalworking, small engines, aerodynamics, etc. Students may also be tasked to generate financial support for their project and manage their educational priorities.

Students who have taken **Basic Supermileage** and want to continue learning basic and advanced welding should take this course. This course covers the welding of aluminum and steel, using MIG, TIG, Acetylene and ARC welding. You will learn the common tools and safe operating procedures while welding. While in this class, students will be working on different projects, including those of personal design and also one of three project cars. The class will culminate in attending the Supermileage competition at Brainerd International Raceway.

Basic Metals/Metal Fabrication *(Spring)* ***Grades 9-12***

COURSE ID: 878 BASICMETALS

This course will introduce the students to career related occupations in the manufacturing trades. Some math will be involved in writing up their material list and figuring the final cost, as well as, drafting their project orthographically before they are allowed to start their project. Machine operation and safety will be emphasized, and basic projects can be constructed. This class is designed for hands-on-builders. Students will learn basic welding techniques such as oxy-acetylene and plasma cutting, Arc, TIG and MIG wire feed welding. Curriculum includes learning about aerodynamics, metal cutting fabrication and small engine and drive systems. Students will design and build a car for the MN Supermileage competition.

Basic Woods *(Spring)* ***Grades 9-12***

COURSE ID: 877 BASICWOODS

This course will introduce students to career related occupations and power & hand tools operations used in the woodworking trades. Some math will be involved in writing up their material list and figuring the final cost, as well as, drafting their project orthographically before they are allowed to start their project. Machine operation and safety will be emphasized, and basic projects can be constructed.

Math

Life Skills (*Fall, Spring)* ***Grades 10-12***

COURSE ID: 421 LIFE SKILLS

Students will learn about financial responsibilities they may face as an adult. Examples include: renting an apartment, budgeting, paying bills, credit card, interest and more.

Music

Senior High Band *(Year-long course)* ***Grades 9-12***
COURSE ID: 803A & 803B SRHIBAND

This course focuses on the continued development of skills learned from the beginning through intermediate level. Students must complete lessons offered during, before, and after school. Students must also take part in rehearsals, concerts, and pep games. Band is a year-long commitment and is graded accordingly.

Physical Education

Indoor and outdoor sports (Fall) ***Grades 9-12***

This course students will learn rules, strategies and participate in many different sports. Sportsmanship, participation, and understanding of rules, strategies, and proper mechanics of different sports will be the main focus. Examples of activities may include (but not limited to) Volleyball, basketball, soccer, floor hockey, ultimate frisbee, flag football, wiffle ball, kickball, spike ball, broomball, badminton, pickleball, disc golf, golf, archery, and softball.

Minnesota Activities (Fall) **Grades 9-12**

This course will incorporate the skills of researching, reading, and writing about what activities Minnesota has to offer. The class will also involve students being active with a variety of activities including: Biking, Swimming, Kayaking, Canoeing, Hiking, Fishing, Cross country skiing, Snow shoeing, Water Skiing, Disc Golf, Ice Fishing, Skating, Broomball, and Hockey.

Team Sports (Spring) **Grades: 9-12**

This course students will learn rules, strategies and participate in many different team sports. Understanding the importance of teamwork, and using team building skills to learn how to work together. Teamwork, sportsmanship, participation, and understanding of rules, strategies, and proper mechanics of different sports will be the main focus. Examples of activities may include (but not limited to) Volleyball, basketball, soccer, floor hockey, ultimate frisbee, flag football, wiffle ball, kickball, spike ball, and broomball.

Strength and Conditioning (Spring) **Grades 9-12**

This course students will be introduced to the workout equipment in the weight room and how to use it with proper technique to help prevent injury. Students will create their own workout plan using

the weight room to focus on their individual needs or goals. This course also covers group workouts that include running, benching, squatting, lunges, pushups, sit ups, and jumping rope.

Science

Chemistry *(Year-long course)* 🎓 ***Grades 11-12***
COURSE ID: 608A & 608B CHEMISTRY

Can be taken for college credit
**offered 2026-2027 school year*
This laboratory course covers basic high school chemistry concepts that help students understand how the universe works at the micro-level. Students will learn about chemical and physical properties, atomic structure, periodicity, bonding, chemical reactions, the Mole, stoichiometry, solutions, and kinetic molecular theory while learning the skills of science and engineering. Class discussions, hands-on activities, group projects and laboratory work are an integral part of this course.

Physics *(Year-long course)* ***Grades 11-12***
COURSE ID: 617A & 617B PHYSICS

Physics investigates the physical world around us in terms of motion, forces, energy, electricity, magnetism, sound, and light. This class has a heavy emphasis on labs and lab reports while using the scientific inquiry method. Students will need to take detailed data and develop a report to share that data while defending their conclusions.

****4 quarters of Chemistry or Physics are required to graduate. Physics is offered every year. Chemistry and anatomy may rotate every other year. ****

Social Studies

20th Century Conflicts *(Fall)* ***Grades 9-12***
This course examines the major conflicts that shaped the 20th century and transformed the modern world. Students will explore the causes, events, and global impacts of wars and political struggles including World War I, World War II, the Cold War, the Korean and Vietnam Wars, genocides, revolutions, and conflicts in the Middle East. Through primary sources, documentaries, discussions, and projects, students will analyze how these conflicts influenced politics, economics, technology, and everyday life around the globe. The course also emphasizes the role of leaders, nationalism, propaganda, human rights, and the lasting effects of war on society**.**

Current Issues and Events *(Spring)* ***Grades 9-12***
This course explores important current events and issues shaping the United States and the world today. Students will examine topics such as politics, economics, technology, human

rights, environmental concerns, international relations, and cultural change through news articles, media analysis, discussions, and research projects. The class emphasizes critical thinking, informed citizenship, and the ability to evaluate multiple perspectives on complex global and national issues. Students will develop skills in communication, analysis, and understanding how current events impact their daily lives and the future of society.

ITV Classes

World History I, From the Beginning to 1500 ***(Fall)***🎓 ***Grades 11-12***

COURSE ID: 839 WORLDHIST BEG-1500

This course will examine the development of world civilizations from prehistory to 1500, and will compare the religion, politics, economy and culture of various world civilizations. Examples will be drawn from Africa, Europe, Asia and the Americas.

World History II, 1500 to the Present ***(Spring)***🎓 ***Grades 11-12***

COURSE ID: 847 WORLDHISTORY 1500-PRESENT

This course will explore the major developments in world history from 1500 to the present. Topics will include the development of major cultural areas and cultural groups that existed in 1500, the influence of European expansion and colonialism, democratic revolutions, industrialization, movements for national liberation, and the rise of the global economy.

Composition 1 (Fall)🎓 ***Grades 11-12***

COURSE ID: 314A COMP1

Composition I is a writing-intensive course that prepares students for writing effectively in a variety of academic and professional situations. Students will learn and employ a variety of rhetorical strategies, including (but not limited to) description, narration, exposition, exemplification, classification, process analysis, comparison/contrast, and definition through formal papers written in edited Standard English, which will result in a total of at least 5,000 words. In addition, students may also be asked to write journals, a resume and letter of application, and to review grammar. Students will regularly engage in all stages of the writing process; learn how to successfully participate in an online, academic environment; and hone their ability to identify thesis, audience, tone, unity, coherence, and emphasis in their reading and writing. The course will also include a literature component to present basic terminology and foster critical thinking skills.

Composition 2 (Spring) 🎓 ***Grades 11-12***

COURSE ID: 314B COMP 2

Composition II focuses on research-based writing and information literacy. Students will learn and employ rhetorical strategies such as analysis (of ideas or human situations into comparable or constituent parts), cause and effect reasoning, inductive/deductive reasoning, and argument/persuasion. Subjects may include reaction, evaluation, and interpretation of literature and/or socio-cultural phenomena. Students will learn the principles of the academic research process such as developing a topic, understanding and applying outside sources, and defining and supporting a critical lens. During that process, students will learn how to locate, access, evaluate, and synthesize traditional and online library resources. Throughout the course, students will demonstrate a command of the writing and revision process and the APA (American Psychological Association) and the MLA (Modern Language Association) formats. Students will demonstrate these skills through formal papers written in edited Standard English, which will result in a total of at least 5,000 words.

Psychology *(Fall)*🎓 ***Grades 10-12***

COURSE ID: 835 PSYCHOLOGY

This class presents a general introduction to psychology as a biosocial science. This survey course will familiarize the student with the basic principles of psychology, show how psychologists employ the scientific method, and equip the beginning student of psychology with a working vocabulary of psychological terminology and critical thinking skills. Areas to be covered include research, neuroscience and behavior, developmental and social psychology, personality, motivation, thinking and learning, memory, psychological disorders and therapy.

Human Development (Spring)*🎓** ***Grades 10-12

COURSE ID: 843 HUMANDEV

Prerequisite: Psychology

This course is a lifespan approach to understanding human behavior. This course will cover theories and research findings in the field of psychology relevant to the psychological development of individuals across the lifespan. Areas to be covered include physical, cognitive, emotional and social development. The course will examine similarities and differences between individuals in the various stages of the lifespan.

Introduction to Sociology (Fall)*🎓** ***Grades 11-12

COURSE ID: 707 SOCIOLOGY

This foundation course is highly recommended as the starting point from which students may logically proceed to higher level sociology classes. Students will be introduced to the fundamental concepts of the sociological perspective, including culture, socialization, organization, authority, deviance and

inequality. Using the scientific method, students will hone their critical thinking skills by interpreting, analyzing, and evaluating the social world.

Social Problems (Spring) 🎓 ***Grades 11-12***

COURSE ID:

This course is an overview of current social problems using sociological perspectives. Students will be able to articulate and apply their own ethical views and insights. The course analyzes how problems come to be defined, their ramifications and possible solutions. The course critically analyzes a range of social issues such as poverty and inequality, racism, sexism, family breakdown, crime and violence, and the environment among other emerging structural and systematic processes affecting the survival of peoples nationally and globally.

Introduction to College Algebra (Fall) 🎓 ***Grade 11***

COURSE ID: 805A INTRO COLL ALG

This course will intensify the study of concepts first seen in Intermediate Algebra, as well as introduce topics that will be covered in College Algebra. A basic understanding of solving equations and using function notation will be expected, so that students can investigate solving systems of equations in three variables, systems of non-linear equations, polynomial equations, and basic exponential and logarithmic equations. Additionally, function operations and graphing function transformations will be introduced and explored. Taught by Mrs. Hasse

College Algebra 🎓 ***(Spring)*** ***Grade 11***

COURSE ID: 854 COLLEGEALGEBRA

This is a college level math course that covers topics such as functions and graphs, inverse functions, linear functions and equations, quadratic functions and equations, polynomial functions, rational functions, radical functions, exponential functions, logarithmic functions, systems of equations and inequalities, and problem solving. A graphing approach will be used in this course. Therefore, the use of a graphing calculator will be highly emphasized. Taught by Mrs. Hasse